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1 Advanced XML technologies and applications: Consistently updating XML documents using incremental constraint check queries



Bintou Kane, Hong Su, Elke A. Rundensteiner

November 2002 Proceedings of the fourth international workshop on Web information and data management

Full text available: pdf(399.07 KB) Additional Information: full citation, abstract, references, index terms

When updating a valid XML document, an efficient yet light-weight mechanism is needed to determine if the up-date would invalidate the document. Towards this goal, we developed a framework called SAXE, we first analyzed the constraints expressed in XML schema specifications and establish constraint rules that must be observed for an XML document to conform to a given XML Schema. We then classify the rules as relevant for a given update case, that is, we show the minimal set of rules that must be ...

Keywords: XML schema, XML update, XQuery

² System technology: Software framework for managing heterogeneity in mobile collaborative systems



Carlos D. Correa, Ivan Marsic

November 2003 Proceedings of the 2003 international ACM SIGGROUP conference on Supporting group work

Full text available: pdf(658.54 KB) Additional Information: full citation, abstract, references, index terms

Heterogeneity aspects in mobile collaborative systems, such as differences in user's interest, semantic conflicts across different domains and representations, and disparate device capabilities, cause difficulties in developing software applications. One of the key problems for collaborative applications is maintaining a consistent shared state. In this paper, we describe a framework that manages several aspects of heterogeneity to maintain consistency across the collaborating sites. We assume gr ...

Keywords: consistency maintenance, content adaptation, mobile computing, scene simplification, virtual worlds

³ <u>Semistructured Data: Induction of integrated view for XML data with heterogeneous DTDs</u>



Euna Jeong, Chun-Nan Hsu

October 2001 Proceedings of the tenth international conference on Information and knowledge management

Full text available: pdf(2.90 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper proposes a novel approach to integrating heterogeneous XML DTDs. With this approach, an information agent can be easily extended to integrate heterogeneous XML-based contents and perform federated search. Based on a tree grammar inference technique, this approach derives an integrated view of XML DTDs in an information integration framework. The derivation takes advantages of naming and structural similarities among DTDs in similar domains. The complete approach consists of three main ...

Keywords: XML DTD, distributed databases, federated search, intelligent agent, mark-up schemes, semistructured data

⁴ XML access control: RDF metadata for XML access control

Vaibhav Gowadia, Csilla Farkas

October 2003 Proceedings of the 2003 ACM workshop on XML security

Full text available: pdf(215.84 KB) Additional Information: full citation, abstract, references, index terms

In this paper we present an access control framework that provides flexible security granularity for XML documents. RDF statements are used to represent security objects and to express security policy. The concepts of simple security object and association security object are defined. Our model allows to express and enforce access control on XML trees and their associations. Access control rules, corresponding to $(s, o, \pm a)$ triples, are represented as RDF statements with properties ...

Keywords: RDF metadata, RXACL, XML security, access control, association objects, flexible security granularity, tree extension

⁵ Database session 5: management of data streams: Raindrop: a uniform and layered algebraic framework for XQueries on XML streams

Hong Su, Jinhui Jian, Elke A. Rundensteiner

November 2003 Proceedings of the twelfth international conference on Information and knowledge management

Full text available: pdf(705.69 KB)

B) Additional Information: full citation, abstract, references, index terms

XML stream applications bring the challenge of efficiently processing queries on sequentially accessible token-based data. While the automata model is naturally suited for pattern matching on tokenized XML streams, the algebraic model in contrast is a well-established technique for set-oriented processing of self-contained tuples. However, neither automata nor algebraic models are well-equipped to handle both computation paradigms.

The goal of the Raindrop project is t ...

Keywords: XML stream, XQuery algebra, query processing

6 Intriguing technology from OOPSLA: Architecture and design of adaptive object-models

Joseph W. Yoder, Federico Balaguer, Ralph Johnson

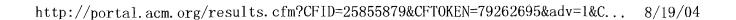
December 2001 ACM SIGPLAN Notices, Volume 36 Issue 12

Full text available: pdf(1.52 MB)

Additional Information: full citation, abstract, references, index terms

Many object-oriented information systems share an architectural style that emphasizes flexibility and run-time adaptability. Business rules are stored externally to the program such as in a database or XML files instead of in code. The object model that the user cares about





is part of the database, and the object model of the code is just an interpreter of the users' object model. We call these systems "Adaptive Object-Models", because the users' object model is interpreted at runtime and can be ...

Keywords: adaptive object-model, adaptive systems, dynamic object-model, meta-architectures, metadata, patterns, reflection, reflective systems meta-modeling

⁷ Re-engineering structures from Web documents

Chuang-Hue Moh, Ee-Peng Lim, Wee-Keong Ng

June 2000 Proceedings of the fifth ACM conference on Digital libraries

Full text available: pdf(180.95 KB) Additional Information: full citation, abstract, references, citings, index terms

To realize a wide range of applications (including digital libraries) on the Web, a more structured way of accessing the Web is required and such requirement can be facilitated by the use of XML standard. In this paper, we propose a general framework for reverse engineering (or re-engineering) the underlying structures i.e., the DTD from a collection of similarly structured XML documents when they share some common but unknown DTDs. The essential data structures and algorithms for ...

Keywords: Web information discovery, XML

8 Web technologies and applications: An XML-based conversational protocol for Web services



Zahir Tari, Mark McKinlay, Manish Malhotra

March 2003 Proceedings of the 2003 ACM symposium on Applied computing

Full text available: pdf(637.01 KB) Additional Information: full citation, abstract, references

SOAP is used to communicate with Web services. It defines the a messaging framework (the envelope), encoding rules and a binding protocol over the HTTP protocol. However SOAP, as it is, does not deal with conversations. To provide full interoperability, clients need to not only know the correct data formats to pass, but also the conversation level protocol involving those messages for any required Web service. This must also include the valid responses, where multiple responses are possib ...

Keywords: Web services, conversational languages, protocol validation

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